

Jeffrey A. Rodzen

EDUCATION:

Ph.D. - Genetics, concentration in Animal Biotechnology (2001), Univ. of California, Davis

B.Sc. - Environmental Science / Marine ecology concentration; approved minors in biology and chemistry (1997, gpa 3.8), Univ. of Maine at Machias

PRESENT POSITION

2006 to present Senior Wildlife Forensic Specialist, California Department of Fish and Game, Wildlife Forensics Laboratory, Rancho Cordova, CA 95670

PREVIOUS EMPLOYMENT

2004-2006. Wildlife Forensic Specialist, California Department of Fish and Game, Wildlife Forensics Laboratory, Rancho Cordova, CA 95670

2001-2004 Post-graduate researcher, Genomic Variation Laboratory, Department of Animal Science, UC Davis.

2001. Student internship. Berkeley DNA Laboratory, California Dept. of Justice

1997-2001 Doctoral Research, Genomic Variation Laboratory, Department of Animal Science, UC Davis.

EXPERTISE

My current employment as a Senior Wildlife Forensic Specialist includes such duties as the use of genetic markers, isozymes, immunoprecipitation, microscopy, and morphology to analyze and match evidentiary samples from the crimes involving the illegal take of fish and wildlife and from wild animal attacks on humans. It also involves the management of several research contracts and the forensic lab operating budget. My research experience includes the development and characterization of genetic markers for a variety of species, including the polyploid white sturgeon, as well as population genetic analyses on several species, including white sturgeon, mule deer, and elk. The projects I have been involved in have focused on the on the development of forensic methods for the conservation of fish and wildlife and the genetic health and breeding of aquaculture stocks. Generally my research interestes include the genetic variation of wild fish and game species as well as aquaculture and hatchery stocks and the implications of patterns of genetic variation for enforcement, conservation, and management.

Current supervisor: Assistant Chief Tony Warrington (916) 657-2355

SCIENTIFIC PUBLICATIONS

Meredith, E.P., **J.A. Rodzen**, J.D. Banks, and K.C. Jones. Characterization of 29 tetranucleotide microsatellite in black bear (*Ursus americanus*) for use in forensic and population applications. *Conservation Genetics*. In press.

Bork, K., A. Drauch, J.A. Israel, J. Pedroia, **J. Rodzen**, and B. May. 2007. Development of new microsatellite primers for green and white sturgeon. *Conservation Genetics*. In press.

Rodzen, J.A., J.D. Banks, E.P. Meredith, and K.C. Jones. 2007. Characterization of 37 microsatellite loci in mountain lions (*Puma concolor*) for use in forensic and population applications. *Conservation Genetics* 8:1239-1241.

Meredith, E.P., **J.A. Rodzen**, J.D. Banks, H.B. Ernest, T.R. Famula, and B. May. 2007. Microsatellite analysis of three California Elk (*Cervus elaphus*) subspecies. *Journal of Mammalogy* 88:801-808.

Meredith, E.P., **J.A. Rodzen**, K.F. Levine, and J.D. Banks. 2005. Characterization of an additional 14 microsatellite loci in California Elk (*Cervus elaphus*) for use in forensic and population applications. *Conservation Genetics* 6:151-153.

Rodzen, J.A., B. May, P. Anders, and S. Ireland. 2004. Initial microsatellite analysis of wild Kootenai River white sturgeon and subset brood stock groups used in a conservation aquaculture program. Prepared for U.S. Department of Energy, Bonneville Power Administration, Portland, OR. Contract No. 88-64

Rodzen, J.A., T. Famula, and B. May. 2004. Estimation of parentage and relatedness in the polyploid white sturgeon *Acipenser transmontanus* using a dominant marker approach for duplicated microsatellite loci. *Aquaculture* 232:165-182.

Rodzen, J.A. and B. May. 2002. Inheritance of microsatellite loci in the white sturgeon (*Acipenser transmontanus*). *Genome* 45:1064-1076.

McQuown, E.C., B. L. Sloss, R. J. Sheehan, **J.A. Rodzen**, G. J. Tranah, and B. May. 2000. Microsatellite analysis of genetic variation in sturgeon: New primer sequences for *Scaphirhynchus* and *Acipenser*. *Transactions of the American Fisheries Society* 129:1380-1388.